



Solve each problem.

**Answers**

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

Square Feet	Total Price (\$)
1315	144,650
1795	197,450

**Contractor B**

$$y = 126x$$

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_

Find the total price you'd get from building a 1,821 sq/ft house from the cheapest contractor.

- 2) Two companies are selling sugar by the pound. The cost of sugar for Company A is represented in the table below, while the cost for Company B is represented by an equation, with  $y$  representing the total cost in dollars for  $x$  pounds of sugar.

**Company A**

Total Pounds	Total Cost (\$)
14	4.06
12	3.48

**Company B**

$$y = 0.29x$$

Find the total cost in dollars of buying 19 pounds of sugar from the more expensive company.

- 3) Two companies are selling electricity by Kilo-watt hour. The cost of electricity for Company A is represented in the table below, while the cost for Company B is represented by an equation, with  $y$  representing the total cost in dollars for  $x$  kilowatt hours.

**Company A**

Total Kilowatt-Hours	Total Cost (\$)
1280	128.00
1312	131.20

**Company B**

$$y = 0.14x$$

What is the difference in price per kilowatt hour between Company A and Company B?



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$$y = 110x$$

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**Company A**

Total Kilowatt-Hours	Total Cost (\$)
1280	128.00
1312	131.20

$$y = 0.10x$$

**Company B**

$$y = 0.14x$$

What is the difference in price per kilowatt hour between Company A and Company B?

**Answers**1. 200,3102. 5.513. 0.04